LIFE-SAVING WORK

City Bacteriologist Gives Exceedingly Interesting _ Interview.

EXPERIMENTS IN EACH CASE

Dr. Levy Makes the Scientific Procedure Plain With Separate Tests Before Reporter.

ond has made no step forward near of years that is so pregnant establishment of a department of logy. This long needed reform direct outcome of the work of G. Williams, member of the

Dr. E. G. Williams, member of the Council.

It will be hard to imagine a more interesting visit than one to Dr. Ernest C. Levy's laboratory, on the fourth floor of the City Hall, Here, with simple looting, but absolutely certain apparatus, the doctor runs to death the bacilli of diphtheria, tuberculosis and typhoid fever. A Times-Dispatch reporter called on Dr. Levy and asked him to give some description of the work he was trying to do, and the use he was making of his equipment. The doctor said:

"In fitting up this laboratory I have been guided by what is done in other cities where I have had the opportunity of seeing what is done. The Board of Health allowed me to follow out my own ideas in the equipment and in the routine of this office. Although the appropriation is very small, still, by moving the laboratory which I had already fixed up at the old pump-house for the water department, and by combining the two here at the City Hall I have avoided the duplication of apparatus, and have thus been enabled to get a fairly satisfactory equipment. After a while when the importance and usefulness of this laboratory shall have been convincingly importance and usefulness of this oratory shall have been convincingly wn, I hope we will be able to get nore liberal appropriation and increase usefulness of this department in pro-tion."

tion."
I suppose the method of making a mosis by the aid of bacteriology consist in finding the germs of the disease examining them under the microper, said the reporter.

The method is seldom the same in any diseases," replied the doctor, "For ance, in diphtheria and consumption lack for the beaters which property.

Makes An Experiment.

n the table, Next a lew drops of red liquid were poured on the and the glass was held over the mill steam began to rise. This peated several times. The glass en washed in a stream of water. " said the bacteriologist, exhib-

sand the bacteriologist, exhib-he result to the reporter, "you at everything which I have on this glass is stained a deep e germs of every kind which may sent, whether they are tubercle

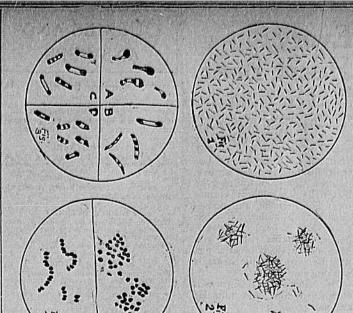


Fig. 2—Typhoid Bacilli, as they appear when acted on by a drop a person who has typhoid fever.

Fig. 3-Showing the four types of Diphtheria Bacilli

this laboratory enables physicians frequently to determine when a patient is suffering from consumption much earlier than they could otherwise do with certainty. In this single way many lives will be saved here. Let us look at the account which accompanied this case. You see, this case is a young man of twenty-five, who has been sick with a bad cough for five months. The doctor reports the case as 'chronic bronchitis, suspicious of tubeculosis,' I find very few tuberels bacilli, thus showing that

the case, and the disease being still in its incipiency, the chances of recovery are excellent, whereas, if this case had been allowed to go unrecognized until the patient had become greatly emaciated and had a cavity in his lung, the chances of recovery would have been slim.

"Not only this, but so long as it was not known that this person had consumption, he would have continued to go around, and by his careless expectoration distribute the germs of consumption broadcast, and almost certainly convey the disease to others. Now he should be cautioned to dispose of his sputum in such a manner as not to be a menace to others."

Diphtheria Case.

Diphtheria Case.

"Now I will show you," continued the doctor, "how we make our examination in a case of suspected diphtheria. Here is the diptheria outfit which the laboratory furnishes to all the culture stations. It consists of a special box, containing a wooden tongue depressor, a sterile tube and swab, full directions to the doctor what he must do, and a blank for him to fill out, giving information as to the age, sex color and address of the patient, the clinical diagnosis and several other points. The doctor passes the swab over the deposit in the throat, replaces it in the tube, fills out the blank and then returns the outfit to any of the culture stations up to 5 o'clock or to Wagner's as late as 8 o'clock.

Save Many Lives,
"And so," rejoined the reporter, "those will observe, is perfectly smooth. Now letter ed lines mean that this person is doomed to die of consumption."
"Not so fast," replied the doctor, "it is just here that we hope to accomplish

Makes It Certain.

which bacteriological examination proves to be the and passed thoroughly se slanting surface of a special medium, made from coaquilated bod. The culture so made is then to the incubator, where it is kept temperature until next morning, this time the bacteria which were in the patient's throat will multi-trimously, and next morning there an abundant growth covering the of the culture medium. It is a but to examine two cultiched came in yesterday evening, a can see the remaining steps for the culture medium to the country of the culture medium. The culture medium to get in the babt of having this done as a matter of routine, as is done in other cities where the office of city bacteriologist has been long established, there is no doubt but that there will be a decided seening of the number of cases of dipheteria in the city."

"If the specimen which we have Just examined had not been from a case of

"I am just about to examine two cui"I am just about to examine two cuires which came in yesterday evening,
id you can see the remaining steps for
ourself.
"Here is a tube of coagulated blood
"To which we have first ease." replied the doctor, "in-

Inded.

The price of Orrine is \$1.00 per box. Mailed in plain, sealed wrapper upon the receipt of price. Write for free booklet on "How to Cure Drunkenness" (mailed

one we have just looked at, which was from a case of true diphtheria.
"This test is or use not only in determining whether or not a case is real diphtheria, but also for the purpose of deciding when the period of contagiousness is past, in other words, when a case of diphtheria, can no longer give the disease to others. We make regular exami-

Most Interesting of All.

"Perhaps the most interesting of all the bacteriological tests is the one for typhoid fever. As I mentioned just now, in this test we do not find the zerm of the disease at all. But here, again, the best way to explain is to show you exact. By what is dope."

Going to the refrigerator which stood in the laboratory, Dr. Levy brought out a rack of test tubes and removed one of them for the reporter's inspection.

"You see this tube contains a transparent jelly. You see the two white streaks on the surface of this felly. Well, these are made up of countless millions of typhoid bacilli. Where did I get then? Why, originally they came, of course, from a case of typhoid fever, but this culture is one which I got from the Bacteriological Laboratory of the Boston Board of Health. It is the same culture which they use in making the test for typhoid fever. Every day a minute speck of this growth is transplanted to a tube of fresh jelly and put in the facubator, where it is kept at the temperature of the human body. Within twelve hours an abundant growth has taken place, and the new tube contains as many bacteria as the one from which it was taken, It is necessary to have a culture of this germ, the bacilius of typhoid fever, in order to test a patient's blood for that disease, I will now show you how this is done.

The reporter did so, and even to his uninitiated eye the difference was apparent.

"Why, yes," he replied, "the bacilli are not swimming as actively as they were at first."

"That is right," remarked Dr. Levy, "and in a little while they will cease moving altogether, and, furthermore, they will gather together in clumps, instead of remaining evenly distributed over the field as they were at first. If both of these things happen—that is, the loss of motility and the "agglutination" as this clumping is technically called—then we can be quite certain that the blood which caused these changes was gotten from a patient suffering from typhoid fever, or else that the patient has had typhoid recently. On the other hand, a failure to get this typical reaction is not absolute proof that the patient has not got typhoid fever. The test fails in a small proportion of cases, so it is not as absolutely reliable as the test for diphtheria or tuberculosis, but the percentage of failures is so small that the test is still of immense service."

V. P. I. GLEE CLUB.

Preparing for a Trip Through the Southwest Colleges,

Virginia Polytechnic Institute Glee Club The Glee Club made very favorable hits

more pronounced than they were last.

Next week a trip will be t.ken through the Southwest, and on Thursday night a recital will be given at the Virginia Institute at Bristol; Friday night at Stonewall Jackson Institute, Abingdon, and Saturday night in Wythevilla, for the benefit of St. John's Episcopal Church. Later on a more extended trip will be made through Pulaski, Pocahontas, Bluefield and towns in that vicenity. The club is composed of Professor F. Habbott, director and soloist; Mr. C. Williams, managor; Messrs. J. L. Baum, G. C. Mabee, C. Williams, first tenors; Messrs. J. W. Grandly, B. C. Tynes, second tenors; Messrs. E. W. Lawson, H. D. Hodgson, first basses; Messrs. I. T. Holf, O. K. Jenkins, second basses.

Mcsrs. Holt and Hodgson are solcies, and Mr. Jenkins performs variety sketches on the violin. Professor Apbott is the accompaniest.

Mr. W. O. Frith, editor of the Blacksburg News, is in Richmond attending the meeting of Grand Lodge of Masons.

Mr. W. J. Gordon, Newport News, Va., a former student of the Virginia Polytechnic Institute, has returned to his home after spending several weeks at Hotel Tutwiler.

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The local Alumni Association of the Virginia Polytechnic Institute, will hold its first meeting of the session Tuesday night. Dr. Meade Ferguson, professor of forestry in the college, is president.

Miss Browning, of Pocahontas, has returned to her home, after several days' visit to Mr. William Lybrook, on Church Street.

The Shaving-Brush.

The Shaving-Brush.

It is likely that the best shaving brush ever made sheds more or less hairs. To provent thistake an elastic band, neither too heavy nor too light; cut it once (not in two), and, holding one end firmly on the handle, wind the rubber around the bristles as close up to the handle as you can, stretching taut as you wind. When you come to the end the a simple flat knot (not a granny knot) or else lose the end, By careful winding a very near job can be done, and the bristles can be worn down to the socket without loist a hair.

Visit the Women's Suit Section



Glad to Send Samples By Mail

We Want the Women of Richmond Here To-Morrow



SPRING DRESS GOODS are here in plenty, and you won't run across a prettier display. It's really worth coming many miles to see this, the choicest and most elaborate showing on record. A visit means much to you—there's economy stamped on every bolt of these handsome stuffs. Don't be elsewhere

-be here, by all means, to-morrow, for there's some price-surprises ready for you.

Among them:

45-inch Grey Mixed and Invisible Plaid 36-inch Shepherd's Checks, in green, blue and black and white........50c 38-inch All-Wool Panama Suitings. . 50c

50-inch Plain and Invisible Plaid Pan-

54-inch Chiffon Panama Suitings, in all ac new combinations in grays....\$1.25 54-inch Cream Serge Suitings, with dainty colored hairline stripes and plaids, the new street novelty, guaranteed to wash\$1.50 A full line of Cream Serges, Mohair, Sicilian, Albatross, Batiste and Voiles, 50c

Springtime and the Linens

AT THIS time of the year we turn our minds naturally to house renovating and furnishing. Our purchases, made many months ago, (many of them our own importations), have begun to arrive, and will continue weekly until all are in.

We show our usual variety of Linens in our HOUSEHOLD LINEN DEPARTMENT to suit all requirements, such as Suiting Linens, Shirt-Waist Linens, Embroidery Linens, Art Linens and Linen Damasks, in grades of unusual wearing quality. Crashes, Towels, Napkins and Doylies, Stair and Furniture Linens, Colored and Tan Dress Linens.

A new and beautiful line of Japanese and Mexican Drawn Linen, all hand work, and at prices which will surprise the purchaser.

Among the specials for Monday, and until sold, is a lot of 8-4 and 10-4 All-Linen Fringed Tablecloths at 65c and 85c-value \$1.00 and \$1.25

Some Real Pretty Wash Goods are Ready

THIS IS unquestionably the favorite showing. Many times larger than ever before—besides. we are fortunate in getting them in so early. The advanced thoughts are here—some we won't be able to duplicate later. Why not do early choosing this year? 'Twill pay from the point of completeness and price.

Beautiful assortment of very Fine Printed French Organdie, the quality usu-ally sold at 25c; our season price, 12 1-2c Printed Silk Mulls, in dark grounds, with white Oriental figures; something new in this market...........50c

Elegant Printed Silk Mulls, white rounds, with printed Boquets, intergrounds, with printed Boquets, inter-spersed with shaded dots, something rare-See display in Dress Goods Department,

Agents McCall Bazar Patterns

Give Orrine and Destroy All Desire for Drink. Sold Under Guarantee.

his intemperate labits by moral suasion. Drunkenness is a disease, and
no disease is more common and so
seldom recognized. A victim of the
drink habit can no more resist liquor
than a man with ague can resist
silivering.

The terrible craving for liquor is a
symptom of disease, and to
overcome it the disease itself should be treated in a
scientific way. When one
has used whiskey, heer or
other stimulants for a long
time, the nerve cells have
become accustomed to the
effects of the stimulants,
and demand liquor in order
to perform their duties. If
the nerve cells are properly
treated, the craving for
liquor will be destroyed.

This is far too metical an
age for "faith cure" fallacles. It will not now be
contended by many sane
persons that organic disenses can be cured by mental processes.

Read What the

The medical profession has long since recognized the fallacy of attempting to cure a drinking man of his intemperate habits by moral suassion. Drunkenness is a disease, and no disease is more common and so seldom recognized. A victim of the drink habit can no more resist liquor than a main with ague can resist shivering.

The terrible craving for liquor is a symptom of disease, and to Orrine is prepared in two forms; No. 1, powder, perfectly tasteless and colorless, which can be given secretly in food or drink. In this way the wife

in food or drink. In this way the wife or mother can save the husband or son and change the drunkard, without his knowledge, into a sober, prosperous man. Orrine No. 2, in pill form, is for those who wish to be cured of their habit, and should be taken by every one who swore off at New Year's.

No matter which form of Orrine is used the guarantee is the same. If taken according to directions it will permanently detroy the craving for liquor or the purchase money will be refunded.

The price of Orrine is \$1.00

Cure Effected or

Money Refunded

in plain, sealed envelope), by the Orrine Company, Inc., Orrine Building, Wash-Registered Guarantee in every box Read What the Polk Miller Drug Company Says About Orrine.

"In the three years that we have been handling Orrine, many individual cases have come under our notice where the preparation has been used with great success. Mothers and sisters have told us of husbands and brothers who, since they were given Orrine, in most cases without their knowledge, all desire for drink seems to have disappeared, and much comfort and joy has now appeared in once desolate homes. We have never had anything but what was good to say about Orrine, and have previously written you from time to time of our absolute confidence in it. As a rule, we do not care to handle such preparationss, and until the agency for Orrine was given us, we took no notice of preparations of like nature. We feel sure that in handling this preparation we are doing a great deal of good. We have absolute confidence in Orrine, and it is a pleasure for us to recommend and vouch for its merit."

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